



Building/Elevator Code Coordination

Examples of Sprinkler/Smoke/Heat Detector Location

Effective December 1, 1999

Case 1: Building completely sprinklered per NFPA 13.

- -combustible hoistway
- -electric or hydraulic elevator
- -machine room in basement

	Hoistway	Machine Room
2nd Floor	Top of Shaft -Sprinkler -Heat detector/flow switch -Smoke detector	
1st Floor	N/A	
Basement	Bottom of Shaft -sprinkler	-sprinkler -heat detector/flow switch -smoke detector

Case 2: Building completely sprinklered per NFPA 13.

- -new passenger elevator
- -non-combustible hoistway (roof deck and walls)
- -hydraulic unit
- -machine room in basement

	Hoistway	Machine Room
2nd Floor	Top of Shaft N/A	
1st Floor	N/A	
Basement	Bottom of Shaft -sprinkler	-sprinkler -heat detector/flow switch -smoke detector

Case 2a: Building completely sprinklered per NFPA 13.

- -new freight elevator
- -non-combustible hoistway (roof deck and walls)

Hoistway

- -hydraulic unit
- -machine room in basement

	Holstway	Wachine Room
	Top of Shaft	
2nd Floor	-Sprinkler	
	-Heat detector/flow	
	switch	
	-Smoke detector	
1st Floor	N/A	
	Bottom of Shaft	-sprinkler
Basement		-heat detector/flow switch
	-sprinkler	-smoke detector

Machine Room

Case 3: Building completely sprinklered per NFPA 13.

- -combustible hoistway
- -electric traction elevator
- -penthouse machine room

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Penthouse		-sprinkler -heat detector/flow switch
2nd Floor	Top of Shaft -sprinkler -heat detector/flow switch -smoke detector	-smoke detector
1st Floor	N/A	
Basement	Bottom of Shaft -sprinkler	

Case 4: Building completely sprinklered per NFPA 13.

- -new passenger elevator
- -non-combustible hoistway (roof deck and walls)
- -electric traction elevator
- -penthouse machine room

	Hoistway	Machine Room
Penthouse		-sprinkler -heat detector/flow switch -smoke detector
2nd Floor	N/A	
1st Floor	N/A	
Basement	N/A	

Case 4a: Building completely sprinklered per NFPA 13.

- -new freight elevator
- -non-combustible hoistway (roof deck and walls)
- -electric traction elevator
- -penthouse machine room

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Penthouse		-sprinkler -heat detector/flow switch -smoke detector
2nd Floor	Top of Shaft -sprinkler -heat detector/flow switch -smoke detector	
1st Floor	N/A	
Basement	N/A	

Case 5: Building sprinklered per NFPA 13R.

- -combustible or non-combustible hoistway
- -electric or hydraulic elevator
- -machine room in basement/ground floor
- -apartment building/motel with dwelling units in basement

	Hoistway	Machine Room
2nd Floor	N/A	
1st Floor	N/A	
Basement/ground floor	N/A	-smoke detector if fire-fighter's service provided

Case 6: Building sprinklered per NFPA 13R.

- -non-combustible hoistway (roof deck and walls)
- -hydraulic elevator
- -machine room in basement/ground floor
- -apartment building/motel with basement/ground floor parking garage

Hoistway

Machine Room

Machine Room

2nd Floor	Top of Shaft N/A	
1st Floor	N/A	
Basement/ground floor	Bottom of Shaft -sprinkler	-sprinkler -heat detector/flow switch -smoke detector

Case 7: Building sprinklered per NFPA 13R

- -combustible or non-combustible hoistway
- -electric traction elevator
- -penthouse machine room
- -basement/ground floor (w/ fire department access openings)

Hoistway

-apartment building/motel w/living units in lower level

Penthouse		-smoke detector if fire-fighter's service provided
2nd Floor	Top of Shaft N/A	
1st Floor	N/A	
Basement/ground floor	N/A	

<u>Case 8:</u> Building sprinklered per NFPA 13R with basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -combustible hoistway
- -electric or hydraulic elevator
- -machine room in basement/ground floor

	Hoistway	Machine Room
2nd Floor	Top of Shaft -Sprinkler -heat detector/flow switch -smoke detector	
1st Floor	N/A	
Basement/ground floor	Bottom of Shaft -sprinkler	-sprinkler -heat detector/flow switch -smoke detector

<u>Case 9:</u> Building partially sprinklered per NFPA 13R with basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -new passenger elevator
- -non-combustible hoistway (roof deck and walls)
- -hydraulic unit
- -machine room in basement/ground floor

	Hoistway	Machine Room
2nd Floor	Top of Shaft N/A	
1st Floor	N/A	
Basement/ground	Bottom of Shaft	-sprinkler -heat detector/flow
floor	-sprinkler	switch -smoke detector

<u>Case 9a:</u> Building partially sprinklered per NFPA 13R with basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -new freight elevator
- -non-combustible hoistway (roof deck and walls)
- -hydraulic unit
- -machine room in basement/ground floor

	Hoistway	Machine Room
2nd Floor	Top of Shaft -sprinkler -heat detector/flow switch -smoke detector	
1st Floor	N/A	
	Bottom of Shaft	-sprinkler
Basement/ground		-heat detector/flow switch
floor	-sprinkler	-smoke detector

<u>Case 10:</u> Building partially sprinklered per NFPA 13R with basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -new passenger or freight elevator
- -combustible hoistway
- -electric traction elevator
- -penthouse machine room
- -basement/ground floor

	Hoistway	Machine Room
Penthouse		-smoke detector
2nd Floor	Top of Shaft -sprinkler -heat detector/flow switch -smoke detector	
1st Floor	N/A	
Basement/ground floor	Bottom of Shaft -sprinkler	

<u>Case 11:</u> Building sprinklered per NFPA 13R with basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -new passenger elevator
- -non-combustible hoistway (roof deck and walls)
- -electric traction elevator
- -penthouse machine room
- -basement/ground floor

	Hoistway	Machine Room
Penthouse		-smoke detector if fire- fighter's service provided
2nd Floor	Top of Shaft N/A	
1st Floor	N/A	
Basement	N/A	

<u>Case 12:</u> Building partially sprinklered -- basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -combustible hoistway
- -electric or hydraulic elevator
- -machine room in basement/ground floor

	<u>Hoistway</u>	Machine Room
2nd Floor	Top of Shaft -sprinkler -heat detector/flow switch -smoke detector	
1st Floor	N/A	
Basement/ground	Bottom of Shaft	-sprinkler -heat detector/flow
floor	-sprinkler	switch -smoke detector

<u>Case 13:</u> Building partially sprinklered-- basement/ground floor sprinklered as per NFPA 13 because windowless floor level.

- -combustible hoistway
- -electric traction elevator
- -penthouse machine room
- -basement/ground floor

Hoistway	Machine Room
	-smoke detector if fire- fighter's service provided
Top of Shaft -sprinkler -heat detector/flow switch -smoke detector	
N/A	
Bottom of Shaft	
	Top of Shaft -sprinkler -heat detector/flow switch -smoke detector N/A

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